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SOURCE Aussenhandels Nachrichten.PRODUCE NEW PRECISION ELECTRONICS INSTRUMENTS

PRODUCE QUADRUPLE-BEAM OSCILLOSCOPE -- Berlin, Aussenhandels Nachrichten, 23 Feb 52

For the observation of extremely rapid phenomena which are beyond the capacity of conventional oscilloscopes, a Czechoslovak plant has constructed an oscilloscope which operates with four beams.

The scope operates on 50 kilovolts and is capable of picturing phenomena which last only from  $10^{-3}$  to  $10^{-9}$  seconds. The size of the viewing screen is 50 x 70 centimeters, the beam deflection is either electromagnetic or electrostatic, the timing adjustment is independent for each tube, and the scanning speeds range from one centimeter in  $10^{-3}$  seconds to 2 centimeters in  $10^{-6}$  seconds.

To observe periodic phenomena, it is possible to adjust the scan repetition rate over a range from 0.5 to five times per second. Photographs may be made with each of the tubes without interrupting observation of the phenomenon which is being studied. The movement of the paper is adjustable from one meter in  $2 \times 10^{-2}$  seconds to one meter in 2.5 seconds. The oscilloscope has a calibrating device and is equipped with precise frequency standards of 1, 10, 100, and 1,000 kilocycles, with a tolerance of 0.01 percent.

The scope is simple to operate and is shielded on all sides to protect the operator from accidental contact with the high-voltage circuits.

PRODUCE ELECTRON MICROSCOPE -- Berlin, Aussenhandels Nachrichten, 27 Feb 52

The Czechoslovak optical industry has constructed a new electron microscope, the Tesla. This microscope has a resolving power of 100 A, requires a specially trained operator, and has a magnifying power of from 3,500 to 24,000 diameters. If necessary, however, the microscope may be operated at magnifying powers of 1,000. The screen on which the magnified image is observed is 60 x 60 millimeters. A revolving drum accommodates four photographic plates, 50 x 50 millimeters in size.

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MANUFACTURE MEASURING INSTRUMENTS OF GLASS -- Berlin, Aussenhandels Nachrichten,  
8 Mar 52

Czechoslovak industry now produces high-quality glass measuring instruments such as calipers, scales, and parallel rules, which are guaranteed to be accurate to within 0.0001 of a millimeter. These instruments are exported by the Kovo Corporation in Prague. Glass measuring instruments are more advantageous than those made of specially hardened steel, since they resist wear and corrosion.

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